Form C-104 Rev. 02/2009 Federal joyht

VALUE ENGINEERING CHANGE PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

☐ Conceptual Proposal ☐ Final Proposal	Date 06/06/2011
Contract ID 101217-401	Job No J4I-1574, J4I-1679 & J4I-2155
County Jackson I-70	Original Bid Cost \$10,938,325.16
Contractor Superior Bowen Asphalt Company	By Keith E. Davenport
Designed By	Phone 816-765-1313
VECP# - 6 (to be completed by C.O.)	VECP or PDVECP
1. Description of existing requirements and prop See attached narrative.	osed change(s). Advantages/Disadvantages
	9 4,87108 PP
2. Estimate of reduction in construction costs.	\$183,287.86 (See attached) 94,471.09
3. Prediction of any effects the proposed change	s) will have on other department costs, such as
maintenance and operations.	fect on other department cost on maintenance and any
•	
4. Anticipated date for submittal of detailed chan	ge(s) of items required by Section 104.6 of the
Specifications.	
	06/06/2011
· ·	(date)
5. Deadline for issuing a change order to obtain a contract completion time or delivery schedule.	naximum cost reduction, noting the effect of
06/12/0011	
06/13/2011 There wo (date)	uld be no change to the contract completion time. (effect)
, , , ,	,
6. Dates of any previous or concurrent submissio	n of the same proposal.
	06/06/2011
(date	and/or dates)

** Portion Below This Line To Be Filled Out by MoDOT **

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Comments: Upon review we recommend UBAWS on EB I-470 from log mile 7.69 to 9.00 and WB from 7.89 to 9.20. Lane 1 and the inside shoulder (both directions) will change from a 1.75 in. mill and fill to a 3/4 inch mill and UBAWS. Lane 2 (SP125C) and lane 3 (concrete) will be used in place as per original contract. The remaining sections (between Woods Chapel and Colbern) were omitted because the purpose of the mill and fill was to reconstruct the longitudinal joint between the median shoulder (4 ft. concrete) and lane 1 asphalt. Colored By Resident Engineer Date				
Com	ments: DUE 78 TO TH AAS R A 75 Approval	THE REDUCTION IN AREA AND IS VE, THE TOTAL ANTICIPATION THIS WILL SERVED TO THE TOTAL ANTICIPATION THIS WILL SERVED SPLIT. Construction and State of the Co	PRICABLE TED SAVINGS OULD BE	
LX		-gov::: Date: 2011.06.24 15:13:50 -05'00'	6/24/11	
	Recommended Rejection Recommended	District Engineer	Date	
Com	Approval	1m cuty copyes pondere		
	Recommended			
	Rejection Recommended	Federal Highway Administration Required for FHWA Full Oversight Projects	Date	
Com	ments: Appronep	PM DISTRICT RECOMMENDATION		
X	Approval	Digitally signed by Dennis Bryant DN: cn=Dennis Bryant, o=MoDOT, ou=3H35, email=dennis.bryant@modot.mo.gov, c=US Date: 2011.08.29 13:43:15 -05'00'		
<i>y</i>				
Ш	Rejection	State Construction and Materials Engineer	Date	

DISCUSSED BY PHOME WITH KENINIRMS WHO RELUCTANTLY AGRED TO SUPPORT FINAL PROPOSAL DEM



Fw: VE, Superior Bowen, J4I1574,1679, 2155, Jackson Ct Dennis G Bryant to: kevin.irving

06/27/2011 07:35 AM

Kevin,

I'll call later this morning to discuss. This proposal has been through several iterations and I think we finally have something we can embrace.

---- Forwarded by Dennis G Bryant/SC/MODOT on 06/27/2011 07:32 AM -----

From:

Perry J Allen/D4/MODOT

To:

Dennis G Bryant/SC/MODOT@MODOT

Cc:

Paul J Russ/D4/MODOT@MODOT

Date:

06/24/2011 03:37 PM

Subject:

VE, Superior Bowen, J4I1574,1679, 2155, Jackson Ct

Dennis

Attached is the revised concept proposal for the Superior Bowen UBAWS VE we have been discussing.

Their proposal is not viable for the I-435 and I-70 portion of this combination project but has some value on the I-470 portion.

Basically, there is only two locations that the VE applies. The section of EB 470 from log mile 7.69 to 9.00 and WB 470 from log mile 7.89 to 9.20. Those sections are originally designed to be a 14 foot wide 1.75" mill and fill with SP125B SM. Based on the proposal, they would be constructed 16' wide 0.75 " mill and fill with UBAWS Type C. This is the inside lane and shoulder along both locations. Due to the daylighting of the UBAWS across the entire 4' shoulder width, it should drain adequately.

Now for the numbers:

EB & WB would be @ 16' wide an area 24,593.1 SY.

ADD:

UBAWS @ 3.10 per SY = \$76,238.61

Remove: 14' wide mill and fill = 21,519 SY

SP124B SM @ 1.75" = 2043 tons @ \$83.56 per ton = \$170,709,70

Net savings of \$94,471.09.

As we discussed, using UBAWS in lieu of the SP125B SM mix would be more consistent with the adjacent 2 year old SP125C placed during the Blue Parkway project.

If you have any questions, please let me know.

Please discuss with Kevin Irving for concurrence and approval.

Thanks

Rte's 70, 470 & 435 - VE Narrative

Rte 470, J4I-1679

The existing requirements of the plans from log miles 7.69 to 9.00 EB, 10.02 to 12.16 EB, 4.71 to 6.96 WB and 7.89 to 9.20 WB calls for a 1.75" Mill and fill using of SP125B SM. Superior Bowen is proposing using a Type C UBAWS in lieu of SP125B SM in this portion of the project. We would still need to perform the milling to provide for the new pavement surface to match the existing pavement surface without an elevation differential, but the depth would be reduced to approximately 5/8". We believe the existing pavement is in a condition that would be acceptable to placing the UBAWS application and the revised pavement section would result in a substantial cost savings to the owner.

, Interstate 470 - Google Maps

Google maps

Address Interstate 470

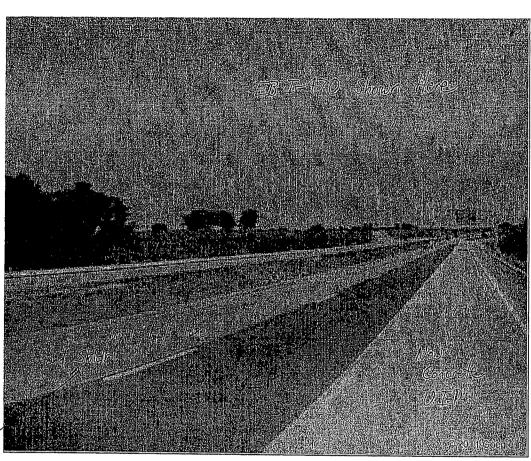
Address is approximate

6-23-11

Save trees. Go green!

Download Google Maps on your phone at google.com/gmm





Typical Section (both directions)

Savings = #94, 47/39 MODOT 75% = \$70,893132 Contractor 25% - 23, 617477

ADD 3/4" MILL & UBAWS FILL -16' WIDE 1.31 MILES = 6916.8FT WESTBOUND / EASTBOUND = 13,833.6 MILL /UBAWS = 13,833.6 × 16 = Z4,593.1 SY X\$3.10 = \$76238.

DELETE

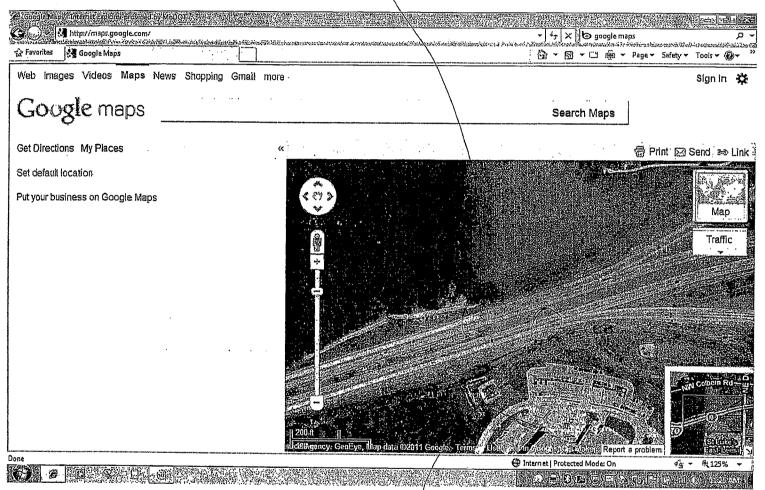
13/4" MILL & SP125BFILL - 14" WIDE 13,833.6' × 14' × 1.75/2 = 1046.06 CY × 1.953 = 2042.96 TONS = \$ 170,709.70

http://maps.google.com/?ie=UTF8&ll=38.943151,-94.383509&spn=0,0.001717&t=k&z=1... 6/23/2011

WB I- ATO Mille Fill 7.89

WB I- Begin Mille Fill 7.89

6-23-11



EB I-470 — end mill & fill log mile 9.00

I-A70 WB end milléAll log mile 9.20 —

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I-470 EB begin mill & fill log mile 7.69

-1.4 mi scaled distance 9:00 - 7-69 = 1.31 mi (cold mill)



SUPERIOR BOWEN ASPHALT COMPANY, L.L.C.



11030 Hickman Mills Drive • P.O. Box 9669 • Kansas City, Missouri 64134 (816) 765-1313 • Fax (816) 765-0945



June 6, 2011

Mr. Paul J. Russ, PE Missouri Department of Transportation 600 NE Colbern Road Lee's Summit, MO 64064-8002

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Rte's 70, 470 & 435; Jackson J4I-1574, J4I-1679, & J44-2155 Contract ID: 101217-401 SBAC Job 11952 18

Dear Mr. Russ:

We are enclosing herewith our C-104 "Value Engineering Change Proposal - Missouri Department of Transportation" formally requesting approval of our VECP. The detailed narrative and break down of costs is attached to the C-104 form. The total savings in construction for our VECP is \$ 183,287.86. It is our opinion that additional design costs associated with our proposed VECP will be minimal if any.

Assuming there are no additional design costs, then in accordance with the Value Engineering Specification, we would share in the savings of our VECP with MoDOT. Besides the reduced construction costs an additional advantage is the impact to traffic due to construction operations would be reduced.

We would appreciate your review and consideration of our VECP. Please feel free to contact me to discuss our proposal, answer any questions or provide additional information.

If you have any questions or require any additional information, please feel free to contact me.

Sincerely,

SUPERIOR BOWEN ASPHALT COMPANY, LLC

Keith ⊭. Davenport Project Mänager

KED:Job 11952_18

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JUN 0 8 2011 BY: ACA (S)

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VALUE ENGINEERING CHECK SHEET

TYPE OF WORK (Check one that applies) Bridge/Structure/Footings Drainage Structures (RCP, RCB, CMP's, ect.) TCP/MOT X Paving (PCCP, ect.) Grading/MSE Walls Signal/Lighting/ITS Misc. SUMMARY OF PROPOSAL (If needed, condense summary to a couple of lines)

	(If needed, condense summary to a couple of lines)
Use UBAWS in	n lieu of SP125 at specific locations on the project.

SCANNING OF DOCUMENT
If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.
Scan entire document.